<table>
<thead>
<tr>
<th>Suite</th>
<th>Manufacturing &amp; Supply Chain Suite</th>
<th>Dynamic Optimization (GDOT)</th>
</tr>
</thead>
<tbody>
<tr>
<td>V/4 Platform Specifications that are supported</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Operating Systems (64-bit only):**

- **Windows 10**
  - Professional
  - Enterprise & Professional
  - Home

- **Windows Server 2022**
  - Datacenter
  - Standard
  - Essentials

- **Windows Server 2019**
  - Datacenter
  - Standard
  - Essentials

- **Windows Server 2016**
  - Datacenter
  - Standard
  - Essentials

- **Ubuntu Server Edition 20.04 LTS**
- **Ubuntu Server Edition 18.04 LTS**
- **Ubuntu Server Edition 16.04 LTS**

**Microsoft Office:**

- **Office 365 (Desktop/Click-to-run) (32-bit/64-bit)**
- **Office 2021 (64-bit)**
- **Office 2021 (32-bit)**
- **Office 2019 (64-bit)**
- **Office 2019 (32-bit)**
- **Office 2016 (64-bit)**
- **Office 2016 (32-bit)**
- **Office 2013 (32-bit)**

**Microsoft SQL Server:**

- **Microsoft SQL Server 2019 (Enterprise/Standard Edition)**
- **Microsoft SQL Server 2019 (Express Edition)**
- **Microsoft SQL Server 2017 (Enterprise/Standard Edition)**
- **Microsoft SQL Server 2017 (Express Edition)**
- **Microsoft SQL Server 2016 (Enterprise/Standard Edition)**
- **Microsoft SQL Server 2016 (Express Edition)**
- **Microsoft SQL Server 2014 (Enterprise/Standard Edition)**
- **Microsoft SQL Server 2014 (Express Edition)**
- **SQL Server 2019 Local DB**

**Database Servers:**

- **PostgreSQL 13.2**
- **Oracle Database 19.x.x 64-bit**

**Database Clients:**

- **aspenONE**
  - Offline Classic
  - Offline Dynamic Optimization (GDOT)
- **GDOT Builder**
- **aspenONE Unified**
### Suite: Manufacturing & Supply Chain Suite

#### AspenONE Unified GDOT Builder

#### Aspen GDOT Online V14 Platform Specifications that are supported

<table>
<thead>
<tr>
<th>Suite</th>
<th>ASP.NET Core 6.0.3</th>
<th>64-bit Oracle Java 17 JDK LTS</th>
<th>64-bit Oracle Java 11 JDK LTS</th>
<th>64-bit Oracle Java 8 JDK LTS</th>
<th>32-bit AdoptOpenJDK Java 17 JRE LTS</th>
<th>64-bit AdoptOpenJDK Java 11 JRE LTS</th>
<th>64-bit AdoptOpenJDK Java 8 JRE LTS</th>
<th>.NET Framework 4.8</th>
<th>.NET 6.0.3</th>
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</thead>
<tbody>
<tr>
<td>Offline</td>
<td>✓</td>
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</tr>
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</table>

**Operating Systems (64-bit only)**

- ASP.NET Core 6.0.3
- 64-bit Oracle Java 17 JDK LTS
- 64-bit Oracle Java 11 JDK LTS
- 64-bit Oracle Java 8 JDK LTS

**Runtimes**

- .NET Framework 4.8
- .NET 6.0.3

**Oracle Client**

- Oracle Client 19.x 32-bit
- Oracle Client 19.x 64-bit

**Oracle**

- Oracle Client 18.x 32-bit
- Oracle Client 11.x ORACLE 11.2.0.3
- Oracle Client 10.2.0.3
- Oracle Client 9.2.0.3
- Oracle Client 10.2.0.2.1
- Oracle Client 10.2.0.1
- Oracle Client 10.1.0.2.1
- Oracle Client 10.1.0.1
- Oracle Client 10.1.0.0

**Runtimes**

- .NET Framework 4.8
- .NET 6.0.3

**Oracle Java**

- 64-bit Oracle Java 17 JDK LTS
- 64-bit Oracle Java 11 JDK LTS
- 64-bit Oracle Java 8 JDK LTS
- 32-bit AdoptOpenJDK Java 17 JRE LTS
- 64-bit AdoptOpenJDK Java 11 JRE LTS
- 64-bit AdoptOpenJDK Java 8 JRE LTS
- 32-bit AdoptOpenJDK Java 11 JRE LTS
- 64-bit AdoptOpenJDK Java 8 JRE LTS

**Python**

- Python
- MSXML 6
- Visual Studio 2022
- Visual Studio 2019
- Visual Studio 2017
- Visual Studio 2013 Tools for Office Runtime
- Microsoft Visual C++ Redistributable 2022
- Microsoft Visual C++ Redistributable 2019
- Microsoft Visual C++ Redistributable 2017
- Microsoft Visual C++ Redistributable 2015
- Microsoft Visual C++ Redistributable 2013
- Microsoft Visual C++ Redistributable 2011

**Virtualization**

- Microsoft Hyper-V (Server)
- VMware ESXi Hypervisor Server 6.x (Server)
- VMware vSphere Enterprise Plus
- Microsoft Terminal Services (Desktop)
<table>
<thead>
<tr>
<th>Suite</th>
<th>Manufacturing &amp; Supply Chain Suite</th>
<th>Dynamic Optimization (GDOT)</th>
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</thead>
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<tr>
<td>V14 Platform Specifications that are supported</td>
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<tr>
<td>Suite</td>
<td>Aspen ONE Unified GDOT Builder</td>
<td>Aspen GDOT Online V14</td>
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<td>Aspen ONE Unified GDOT Offline</td>
<td>Aspen GDOT Online Classic</td>
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<td>Operating Systems (64-bit only)</td>
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<td>Citrix Virtual Apps and Desktops 7.1912 (Desktop)</td>
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<td>Chrome on iOS 14+ for iPad Support</td>
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<td>Integration Components</td>
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<td>Report Services</td>
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<td>Microsoft Report Viewer</td>
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<td>ServiceNow</td>
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<td>Host Windows</td>
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<td>Supported Versions of Fortran</td>
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<td>FORTRAN 2021</td>
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<td>Container Support</td>
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<td>Docker Engine-Enterprise 19.03.x</td>
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<tr>
<td><strong>V14 Platform Specifications that are supported</strong></td>
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</tbody>
</table>

**Desktop Types - Minimum Recommended**

- **Type I:**
  - Computer & processor: Intel Core-i5 family or faster
  - Memory (RAM in GB): 16
  - Hard Disk (GB): 120
  - Monitor: Graphics hardware acceleration requires a DirectX10 graphics card and a 1440 x 900 or higher resolution monitor
  - Network (MB/s): 100Mbps

- **Type II:**
  - Computer & processor: Intel Core-i5 family or faster
  - Memory (RAM in GB): 16
  - Hard Disk (GB): 250
  - Monitor: Graphics hardware acceleration requires a DirectX10 graphics card and a 1440 x 900 or higher resolution monitor
  - Network (MB/s): 100Mbps

- **Type III:**
  - Computer & processor: 4CPU >= 2.8GHz (turbo max 3.2 preferred)
  - Memory (RAM in GB): 16
  - Hard Disk (GB): 100
  - Monitor: Graphics hardware acceleration requires a DirectX10 graphics card and a 1440 x 900 or higher resolution monitor
  - Network (MB/s): 100Mbps

**Server Types - Minimum Recommended**

- **Type I:**
  - Computer & processor: Intel Core-i7 family or faster for standalone deployment
    - Intel Xeon Gold series, 4 cores or more for multi-user environment
  - Memory (RAM in GB): 16 + for standalone deployment, 32 + for multi-user environment
  - Hard Disk (GB): 150 for standalone deployment, 300 for multi-user environment
  - Monitor: Graphics hardware acceleration requires a DirectX10 graphics card and a 1440 x 900 or higher resolution monitor
  - Network: 100 Mbps

- **Type II:**
  - Computer & processor: Intel Xeon Gold series type system (4 cores) or faster
  - Memory (RAM in GB): 16 +
  - Hard Disk (GB): 300 +
  - Monitor: Graphics hardware acceleration requires a DirectX10 graphics card and a 1440 x 900 or higher resolution monitor
  - Network: 100 Mbps

- **Type III:**
  - Computer & processor: Intel Cascade Lake-based Xeon processor with 8 cores or more per processor
    - Memory (RAM in GB): 32 gigabytes (GB) or more available
    - Hard Disk (GB): 500 gigabytes (GB) or more available
    - Monitor: Graphics hardware acceleration requires a DirectX10 graphics card and a 1440 x 900 or higher resolution monitor
    - Network: 100 Mbps (Gigabyte network recommended)

- **Type IV:** (IIoT Gateways)
  - Computer & processor: ARM or Intel based CPU or more
  - Memory (RAM in GB): 256Mb or more
  - Hard Disk (GB): 100 GB or more

- **Type V:**
  - Windows Server 2019 v1809+
    - Memory (RAM in GB): Minimum: 16, Recommended: 32
    - Cores: Minimum: 4, Recommended: 8
    - Disk space (GB): Minimum: 64, Recommended: 100
    - Network: Minimum: 50, Recommended: 100 Mbps

- **Type VI:**
  - Computer & processor: Intel Xeon E class processor or equivalent with dual core min.
    - Memory (RAM in GB): Minimum: 4
    - High IOPS drive, SSD preferred
    - Network: 100 Mbps

- **Type VII:**
  - Computer & processor: Intel Xeon E class processor or equivalent with dual core min.
    - Memory (RAM in GB): 8 +
    - Hard Disk (GB): 100 GB min. High IOPS drive, SSD preferred
    - Network: 100Mbps
## Platform Specifications that are supported

<table>
<thead>
<tr>
<th>Suite</th>
<th>Operating Systems (64-bit only)</th>
<th>Computer &amp; processor: Intel Xeon E class processor or equivalent with 8 cores or higher</th>
<th>Memory (RAM in GB): 12 or above gigabytes (GB) RAM</th>
<th>Hard Disk (GB): 2000 min.</th>
<th>Network: 200 Mbps</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type VIII</td>
<td>Single model environment</td>
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<tr>
<td>Type IX</td>
<td>Single model environment</td>
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<tr>
<td>Type X</td>
<td>Single model environment</td>
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<tr>
<td>Type XI</td>
<td>Multiple models within single environment (max models&lt;=10)</td>
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<tr>
<td>Type XII</td>
<td>Multiple models within single environment (max models&lt;=10)</td>
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<tr>
<td>Type XIII</td>
<td>Supports 20 concurrent users</td>
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<tr>
<td>Type X1V</td>
<td>Supports 100 concurrent users</td>
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<tr>
<td>Type XV</td>
<td>Computer &amp; processor: 16 vCPU &gt;+ 2.2 GHz</td>
<td>Memory (RAM in GB): 32</td>
<td>Hard Disk (GB): 100</td>
<td>Network: 5 Mbps</td>
<td></td>
</tr>
</tbody>
</table>

### Notes

- In general, AspenTech’s aspenONE® software license agreements with customers permit use of the licensed software on Supported Computers at customer Sites. “Supported Computers” include computers with a manufacturer, model and operating system for which AspenTech offers a supported version of the software, and that are controlled by the customer. “Sites” are customer facilities or locations specified in the license agreement.

- AspenTech permits customer use of licensed aspenONE software in the cloud where: (i) the Platform Specifications published by AspenTech for the relevant version of the software product include cloud support; (ii) only the customer has access to the licensed software hosted by the cloud service provider; and (iii) the user is accessing the software only from a Site specified in the applicable license agreement.

- Cloud deployment does not change any license restrictions, including the restrictions on which regions can access the software.

### AspenTech Support

- AspenTech offers Support to customers of licensed aspenONE software. Support is provided for the licensed software and its associated documentation.

### Additional Information

- AspenTech’s Support is provided to customers through a variety of channels, including phone, email, and online support forums.

- Customers can access AspenTech’s Support through the AspenTech Support Portal, which provides access to online resources, including documentation, training, and community forums.

- Support is available to customers during standard business hours, and AspenTech strives to respond to customer requests in a timely manner.

- AspenTech’s Support team is composed of experienced professionals who have expertise in a wide range of areas, including process control, operations management, and software implementation.

- AspenTech’s Support team is available to help customers with a wide range of issues, including software installation, configuration, and operation, as well as troubleshooting and problem resolution.

- Customers can submit requests for Support through the AspenTech Support Portal, and AspenTech’s Support team will work with customers to resolve any issues or questions they may have.

- AspenTech’s Support team is committed to providing high-quality support to customers, and AspenTech regularly reviews and updates its Support processes to ensure that customers receive the best possible support.

- AspenTech encourages customers to provide feedback on the quality of its Support services, and AspenTech uses this feedback to continually improve its Support processes and offerings.

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### V14 Platform Specifications that are supported

When running software on a virtual machine, the machine should meet the same requirements.

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</thead>
<tbody>
<tr>
<td>When running software on a virtual machine, the machine should meet the same requirements.</td>
</tr>
</tbody>
</table>

AspenTech does not support the in-place upgrade of the Operating System (for example: upgrade Windows 7 to Windows 10) with AspenTech software already installed. Our recommendation is to uninstall Aspen software before upgrading the OS and install it after the upgrade.

Your Aspen SLM Server must be installed and running prior to installing any V14 product.

For standalone, 1280 x 800 is the minimum recommended resolution monitor for servers.

**Microsoft Active Directory/Domain Services (Required for aspenONE Web Server)**

A minimum of 10GB of free space is needed to install/upgrade products on the C drive. This configuration is only practical for small scale models and deployments. For most applications, best deployment practice dictates the use of a separate and dedicated database server for acceptable performance.

- Only Web Download Excel Add-in requires Excel.
- Users need to install both the 32-bit and 64-bit Oracle Clients 19.x for building and running reports.
- Non-English OS's are not supported.
- SLM supported in cloud (Azure VM/Amazon VM) for ENG products that are supported in the cloud.
V14 Platform Specifications that are supported

- **Suite**
- **Manufacturing & Supply Chain Suite**
- **Dynamic Optimization (GDOT)**

### Operating Systems (64-bit only)

- Aspen GDOT for offline Dynamic Optimization (GDOT)
- Operating Systems: 64-bit only

### Other Notes

- Aspen GDOT Offline Classic
- Office 365 - 32-bit support only
- If FIPS is enabled, aspenONE Exchange users must have the latest Windows Update patches installed on their machines.

### Additional Information

- **Support for Windows Server 2019 version 1809+**
- **Maestro supports Windows Server 2019 version 1809+**
- **WVD Certification Notes:**
  1. Publishing WVD apps to users local machine start menu not supported
  2. Interoperability with 3rd party products only supported with Office 365
  3. Aspen Properties Enterprise Database (APED) on SQL Server is supported
  4. The following products have not been certified for WVD: ABE, ABPD, AVCA

### Browser Support

- **ATMOS Web** does not support Oracle
- **APEM** does not support CDB-PDB database in Oracle 19.
- **Weigh & Dispense Client** 32-bit does not support Oracle

### Additional Specifications

- **SCCM support for APEx only**
- **APM Insights** must be installed on the same server as AEI.
- **When you have more than 8 simultaneous users, the recommended is (2CPU's and 4GB RAM per user)**
- **Performance** will vary based on product and usage profiles. This can be considered a starting point for large multitudes.

### Product Specifics

- **OptiPlant** requires a graphics card which supports OpenGL 2.1
- **Includes support for Windows Server: Dimension**
- **Support** for Adobe Connect
- **These applications can run on a desktop, but it is recommended to run them on a server and have users connect via Citrix or Terminal Services.
- **This Application Should be installed on a dedicated Web Server.

### Upgrade Path

- **Windows Server Datacenter**

### General Notes

- **Resolution no higher than 1920x1080**
- **Refer to the AspenTech Lifecycle Knowledge Base article to see a reference to the supported Windows Server upgrade paths: [https://esupport.aspentech.com/S_ProductLifecyclePolicy](https://esupport.aspentech.com/S_ProductLifecyclePolicy)**
- **This solution does not have an option to be downloaded (DE), please refer to Check ID**

### Suite

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<td>Offline Classic</td>
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</table>

SQL Server 2014 does not support TSQL 2008 functionality. Due to this, Daylight Saving time will not be accounted for in the database views defined in the Unified Scheduling Results database.